

**PRRT – Hydroacoustics; UMaine Contract number 5405052-43730**  
**Update for ReadME File for data collected from 2010-2012**

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The side looking sonar project on the Penobscot River has two hydroacoustics systems collecting data at a rate of 10 samples per second per side. Data is usually collected from late April to early November. This amounts to a very large data set especially with four total years. Without doing an actual calculation the dataset will likely be over 20 terabytes. The raw data alone will account for ~ 9 terabytes. This will be around 10 or more separate hard drives to house all of the data, not to mention backups if necessary. There will also be multiple types of files associated with this dataset.

- The DIDSON unit produces .ddf files.
- The Biosonics unit produces .rtp files as the main acoustics data as well as .hpr and .nme formats.
- For Biosonics data to be accessible in Echoview software, the .rtp files must be converted to .dt4 files which basically doubles your data set size.

This description is to allow The Trust to prepare in advance for the large amounts of data that this project has created. Storage and backups are more complicated with this much data and we want The Trust to be able to make a smooth transition with this acquisition.

Once data collection has been completed in November 2013 a transfer can be made to the NOAA database once NOAA decides which format they would like to receive the data and drives are purchased to meet the size requirements of such files.